

REMARKS

The courtesies extended Applicants' attorney Bill Cray by Examiners Ahmed and Dickey in the telephone interview held 17 September 2009 is appreciated. The claims have been amended to address the 112 rejections, and to better define and better distinguish the claimed invention from the prior art, and to address the functional language issues raised by the Examiner, along the lines discussed in the aforesaid telephone interview, all as will be discussed below.

The objection to the drawings under 37 C.F.R. § 1.83(a) as not showing the following certain features of claims 76-79 is in error. Applicants respectfully submit that the claim recitations relate at least to the embodiment of FIG. 19, in which there is illustrated an "optical interconnection module", the claimed "optical coupler", which may comprise, as recited in claim 76, a "photodiode" 81 receiving incident light emitted from a "first optical fiber", 83, to generate a first signal on vias 86, to an LSI circuit in LSI package 89; a "light source" (VCSEL laser light source 82) for generating a signal light that is irradiated into a second optical fiber 84. As recited in claim 78, the module also includes a "first optical coupler" (mirror 93) and a "second optical coupler" (mirror 94).

Turning to the several 112 rejections, claim 41 now depends from claim 76, through claim 35, and thus the recitation "a scattering member" is correct.

Claim 44 and its dependent claim 47 have been rejected for allegedly reciting "said second semiconductor layer", without antecedent basis. Applicants respectfully submit that

HAYES SOLOWAY P.C.
3450 E. SUNRISE DRIVE,
SUITE 140
TUCSON, AZ 85718
TEL. 520.882.7623
FAX. 520.882.7643

175 CANAL STREET
MANCHESTER, NH 03101
TEL. 603.668.1400
FAX. 603.668.8567

Claim 44 does not recite “said second semiconductor layer”, but rather recites “said semiconductor layer” which the Examiner has indicated has proper antecedent basis.

Claim 68 and 69 have been indicated to cite “said second semiconductor layer” and “said first semiconductor layer”, without sufficient antecedent basis for these limitations in the claim. Claims 68 and 69 have been amended to remove this informality.

Claim 85, and its dependent claims 86-88, have been rejected due to reciting “the metal side of the junction” and “the junction”, without proper antecedent basis. Claims 85-88 have been cancelled and rewritten as new claim 94, along with other recitations found by the Examiner to distinguish claims 76-79, 82, 84 and 92 from the art. New claim 93 has been drafted to remove the objectionable informalities found in claims 85-88.

Turning to the art rejections, claims 1-3, 27, 31, 35, 44 and 85-89 have been rejected as being anticipated by Fujikata; claims 68 and 69 have been rejected as being obvious from Fujikata; claims 35, 41 and 44 have been rejected as being obvious from Fujikata in view of Ueyangi; claims 72 and 90 have been rejected as being obvious from Fujikata in view of Scruggs; claims 74 and 91 have been rejected as being obvious from Fujikata in view of Scruggs and further in view of Ojima; claims 29, 50, 53, 56, 59, 62, 65 and 80 have been rejected as being obvious from Fujikata in view of Applicant Admitted Prior Art (APA); claim 73 has been rejected as being obvious from Fujikata in view of Applicant Admitted Prior Art (APA) and further in view of Scruggs; claim 75 has been rejected as being obvious from Fujikata in view of Applicant Admitted Prior Art (APA) and further in view of Scruggs and further in view of Ojima; claim 81 has been rejected as being obvious from Fujikata in view of APA and further in view of Scruggs; and claim 82 has been rejected as being obvious from Fujikata in view of APA in view of Scruggs and further in view of Ojima.

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3450 E. SUNRISE DRIVE,
SUITE 140
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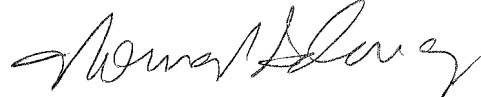
Claims 76, 82, 84 and 92 have been rewritten in independent form, and claim 82 also has been written to include the limitations of claim 83, which has been cancelled. Additionally, a new claim 94 has been added with similar combined recitations. It is believed that these claims 76-79, 82, 84, 92 and 94 are now in a condition for allowance. Claims 1, 72-75, 80, 81, 83 and 85-89 have been cancelled as redundant in view of the amendments just noted. The remaining claims, as appropriate, have been amended to change the dependence to one of the now allowable claims, directly or indirectly.

Having dealt with the objections and rejections raised by the Examiner, early and favorable action is respectfully requested.

Added extension fees are being paid via EFS WEB in the amount of \$130.00.

In the event there are any fee deficiencies or additional fees are payable, please charge them (or credit any overpayment) to our Deposit Account Number 08-1391.

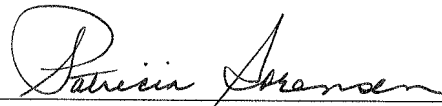
Respectfully submitted,



Norman P. Soloway
Attorney for Applicants
Reg. No. 24,315

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I hereby certify that this correspondence is being deposited with the United States Patent Office via the electronic filing procedure on October 8, 2009.

By: 

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HAYES SOLOWAY P.C.
3450 E. SUNRISE DRIVE,
SUITE 140
TUCSON, AZ 85718
TEL. 520.882.7623
FAX. 520.882.7643

175 CANAL STREET
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TEL. 603.668.1400
FAX. 603.668.8567